

1. (currently amended) A method for radio resource allocation in a wireless cellular system that employs frequency reuse, said method comprising the steps of:

measuring cellular traffic load in said system as a function of
available spectrum;
allocating ~~reusing~~ co-channel resources within said system; and
progressively ~~increasing~~ changing said co-channel resource
allocation ~~reuse~~ as said traffic load changes in accordance with a
predetermined priority in order to ~~maximum~~ maximize the carrier to
interference ratio.

2. (new) The method of claim 1 wherein the co-channel resources in the system comprise multiple timeslots on an RF channel and traffic in the system is assigned based on a fixed priority allocation between the multiple timeslots.

3. (new) The method of claim 2 wherein the system comprises multiple cells each with a given set of users and the fixed priority allocation is between said given set of users.

4. (new) The method of claim 3 wherein the system is a wireless packet network.

5. (new) The method of claim 4 wherein the co-channel resources have a
fixed frequency spectrum.

A2